



FRONT PAGE VIEW  
TRUCK ALIGNMENT SYSTEM

Henry Rohrig

818-761-3628

818-489-2049

For: 22.5" / 24.5" Wheel Size Truck – Buses and Trailers

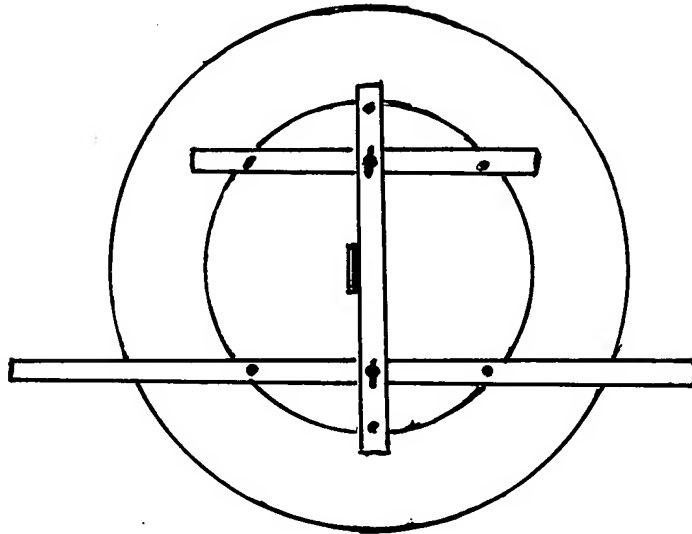
P.O. Box 2159 Toluca Lake, Ca. 91610

Application # 10/607,019

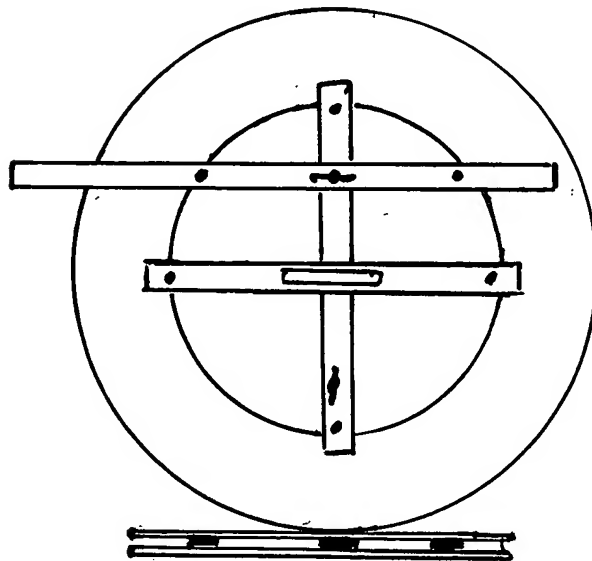
Confirmation # 8161

Patent #

Filing date: 06/25/2003



ALIGNMENT UNIT INSTALLED ON STEERING AXLE



ALIGNMENT UNIT INSTALLED ON DRIVE AXLE  
RESTING ON ROLLER PLATES

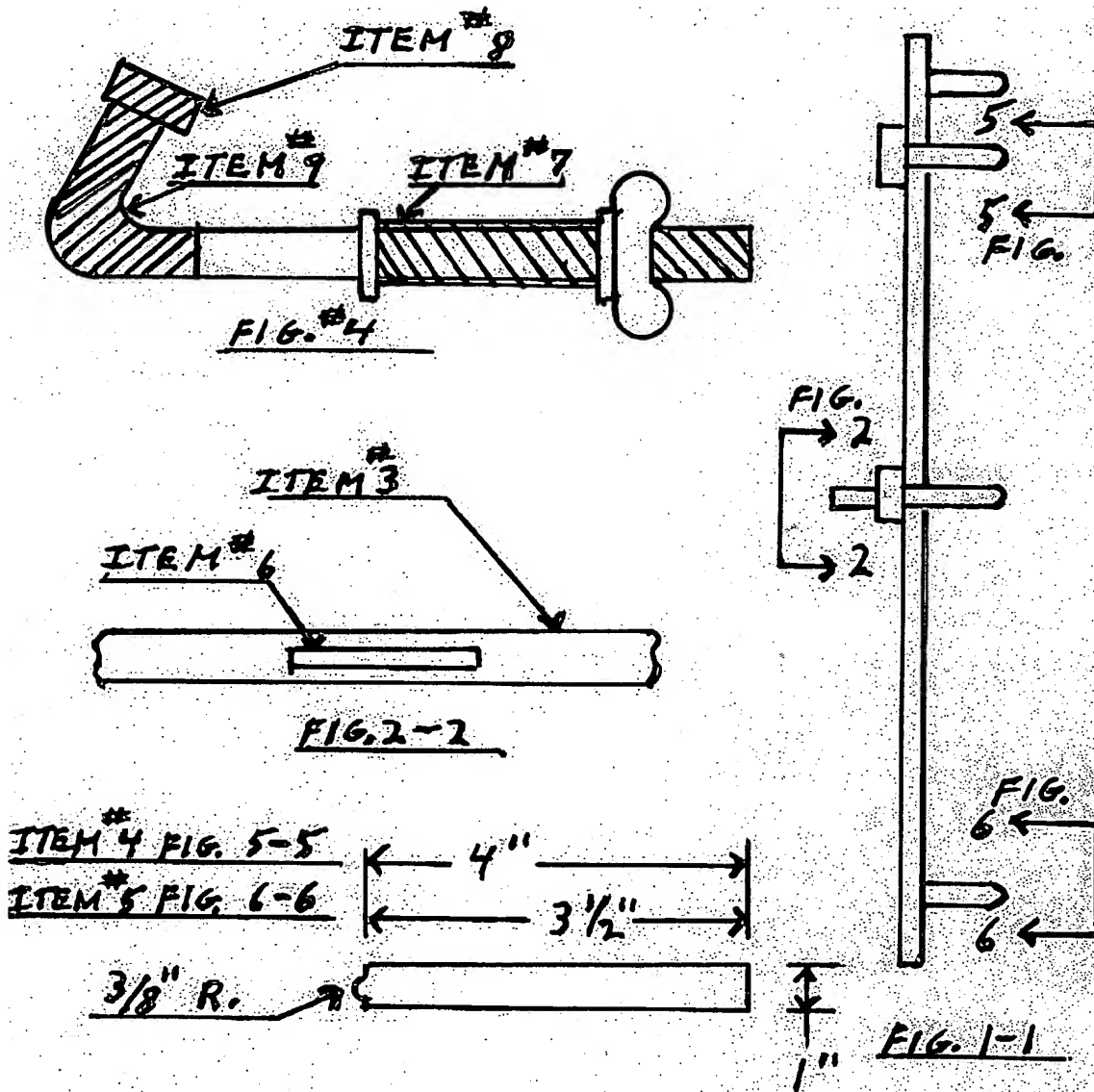
Technical drawing of a mechanical assembly, labeled FIG. 1, showing a side view of a structure with three main horizontal components labeled ITEM #1, ITEM #2, and ITEM #3.

**Dimensions:**

- Overall height: 29"
- Distance from top to ITEM #2: 20"
- Distance from ITEM #2 to ITEM #3: 12 1/2"
- Distance from ITEM #3 to bottom: 6 1/2"
- Horizontal distance from left edge to center of ITEM #2: 10 1/2"
- Horizontal distance from center of ITEM #2 to right edge: 21 1/2"

**Labels and Features:**

- ITEM #1:** A vertical component at the top center.
- ITEM #2:** A horizontal component below ITEM #1, featuring two 'X' marks on its top surface.
- ITEM #3:** A horizontal component below ITEM #2, featuring a series of '+' marks along its top edge.
- Labels A, B, C, D, E:** Point to specific features or edges of the assembly.
- FWD.:** An arrow pointing left, indicating a forward direction.



Drawing # 102 Drive Axle Unit Part # 857 / Part # 856

Figure 1-1 Rotated 90 Degrees

Henry Rohrig

**Truck Alignment System 818-761-3628**

818-489-2049

Part # 858

Part # 859

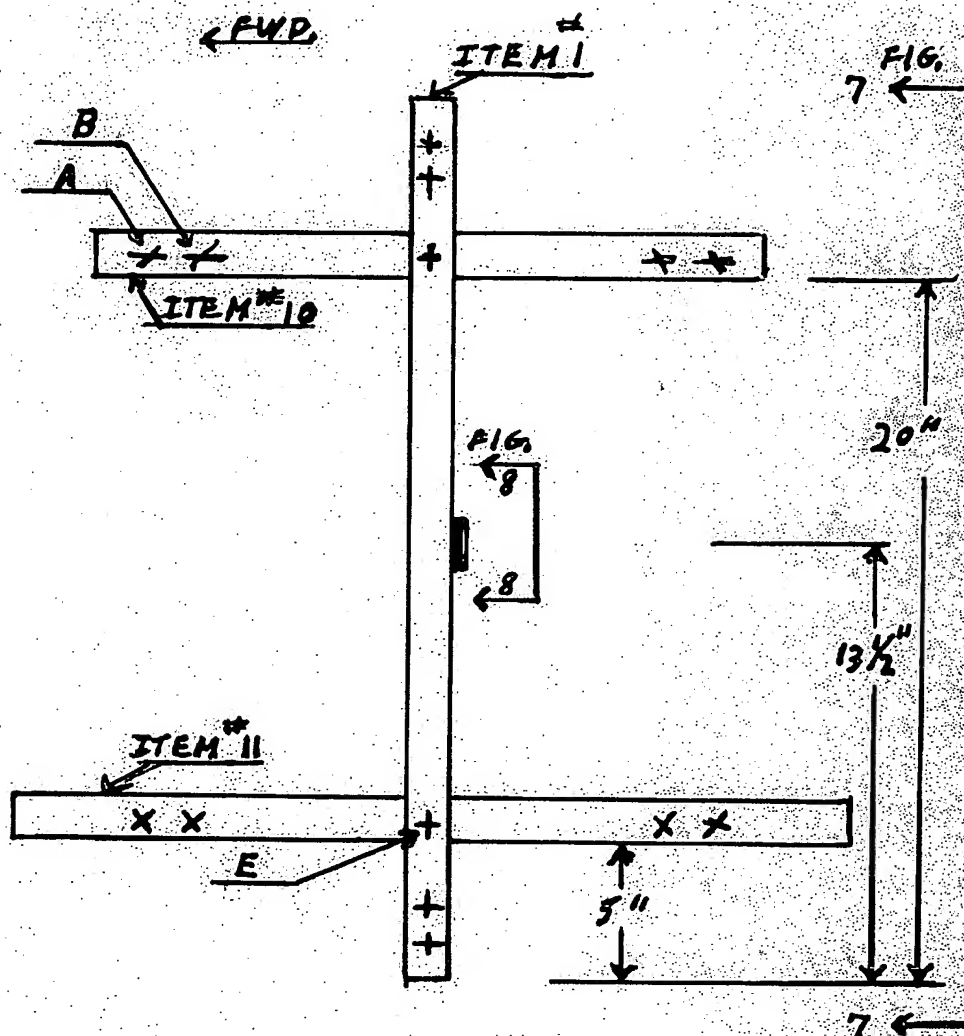
## Steering Unit

for 22.5" /

24.5" wheel

ze also used

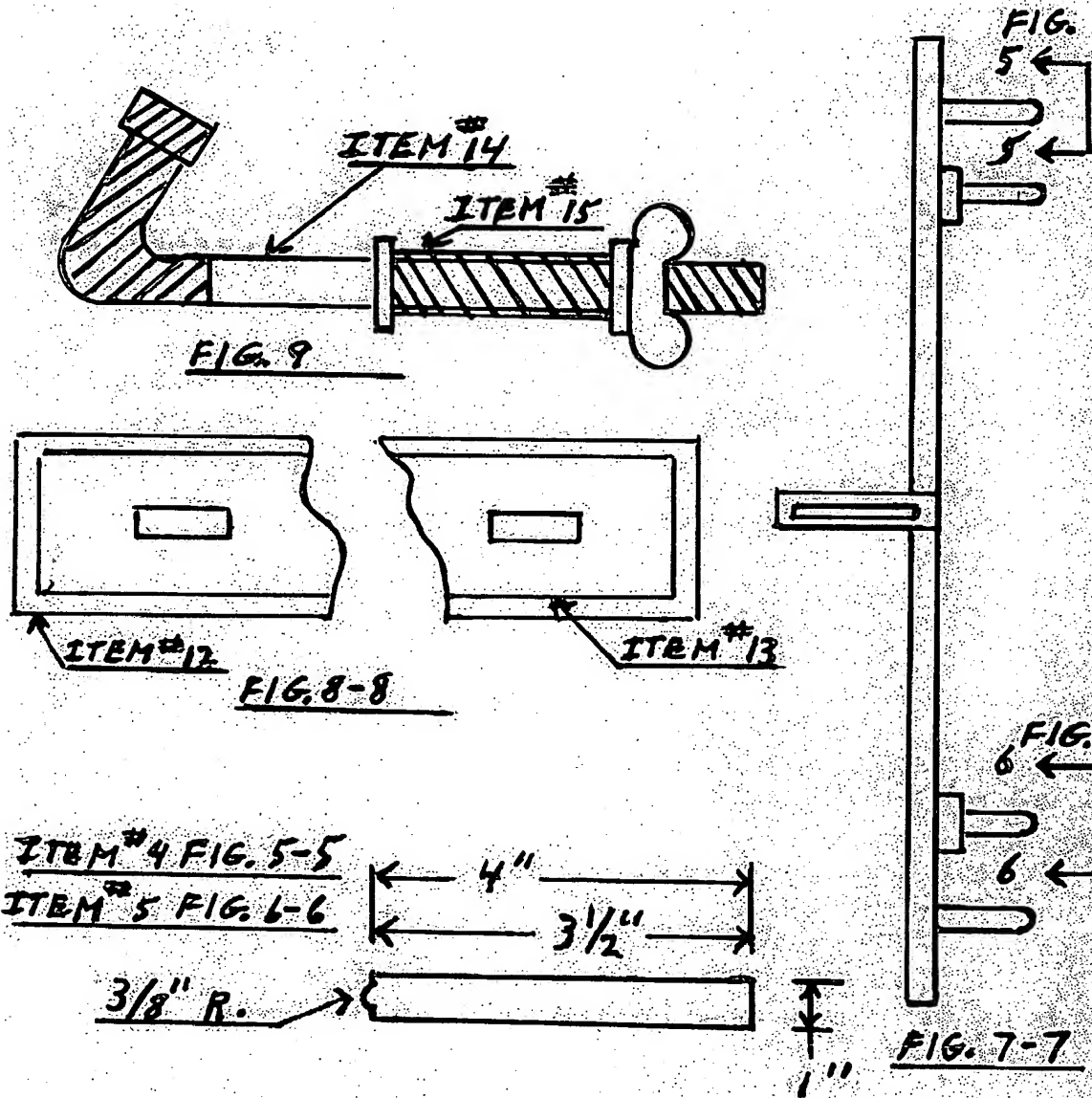
## Busses



Drawing # 103 Steering Axle Unit

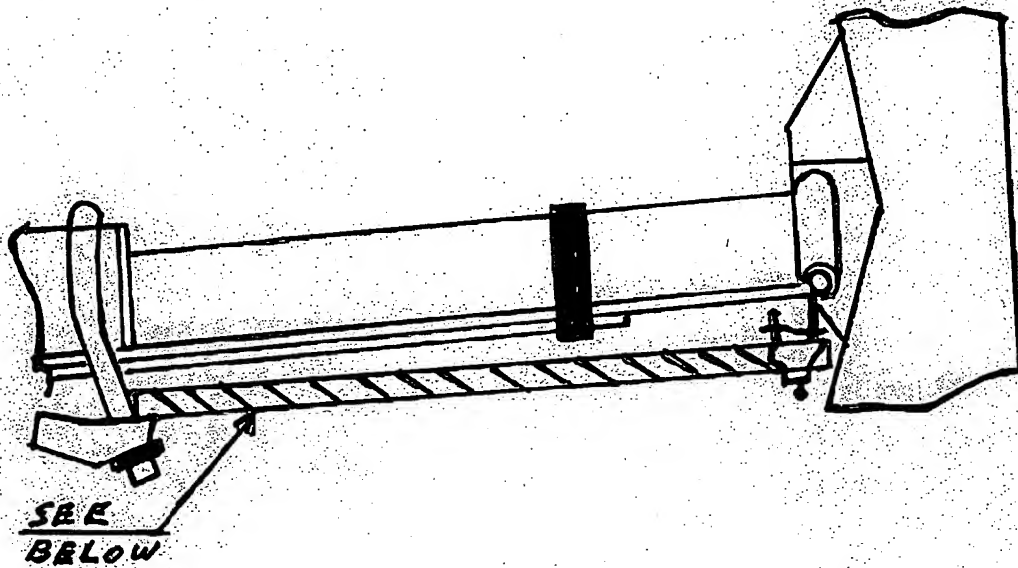
Part # 859    Driver side shown

Part # 858. Passenger side opposite

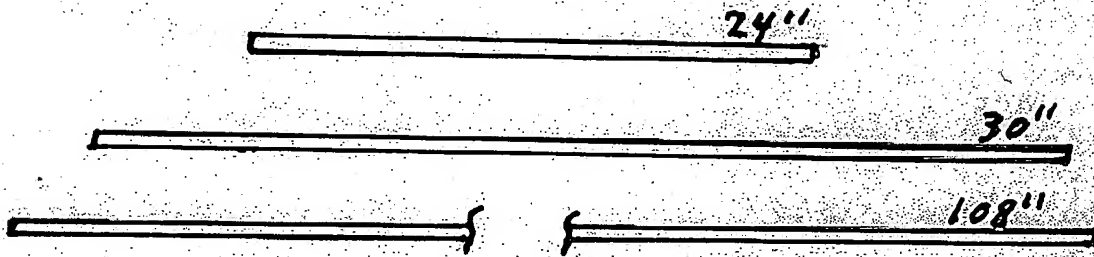


Drawing # 104 Steering Axle Unit

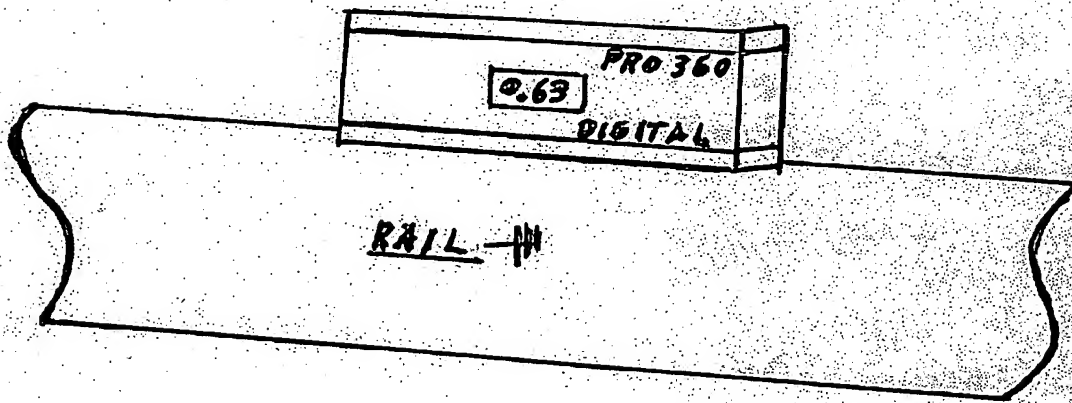
Figure 7-7 Rotated 90 degrees



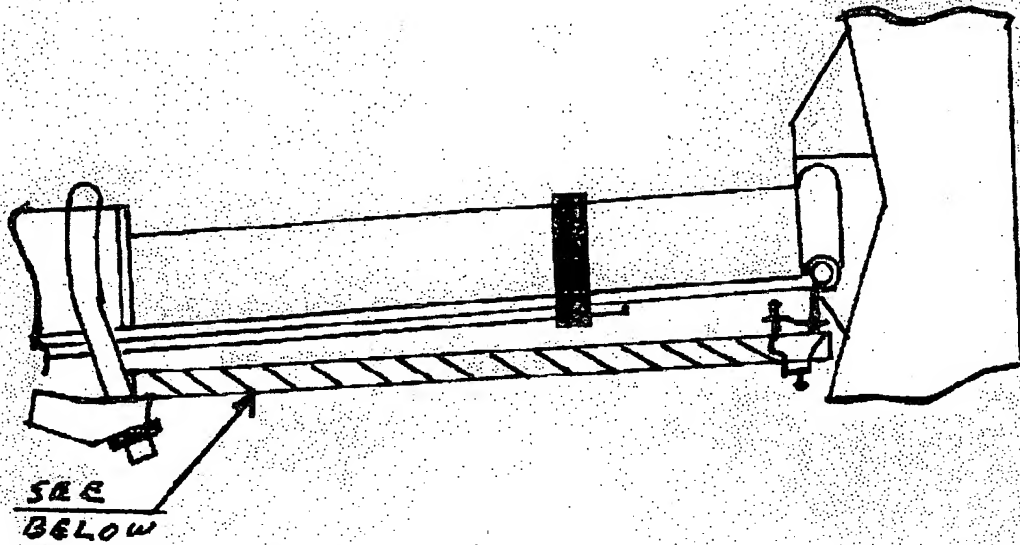
Drawing # 105 CHECKING SPRING BUSHING TO "U" BOLT



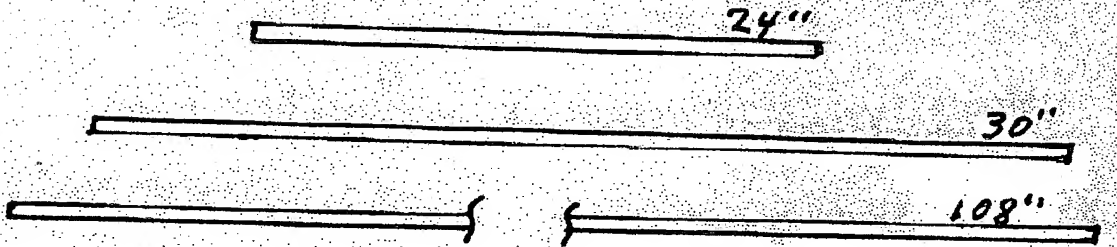
Drawing # 106  
TRAMMEL BARS USED FOR THE ALIGNMENT



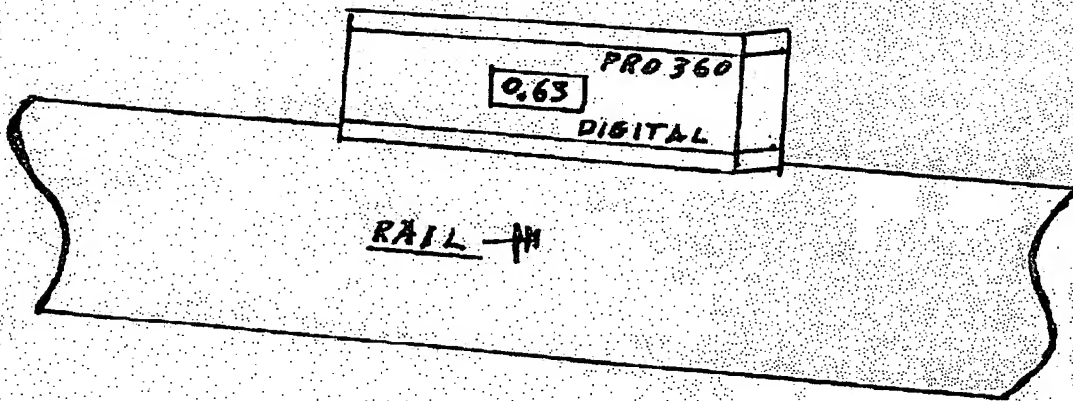
Drawing # 107 CHECKING ANGLE OF FRAME RAIL



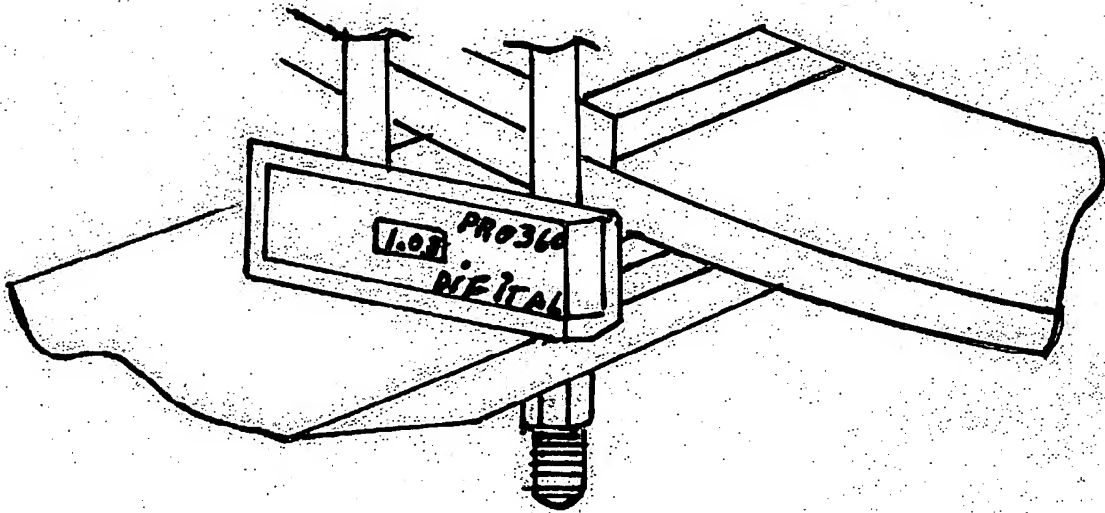
Drawing # 105 CHECKING SPRING BUSHING TO "U" BOLT



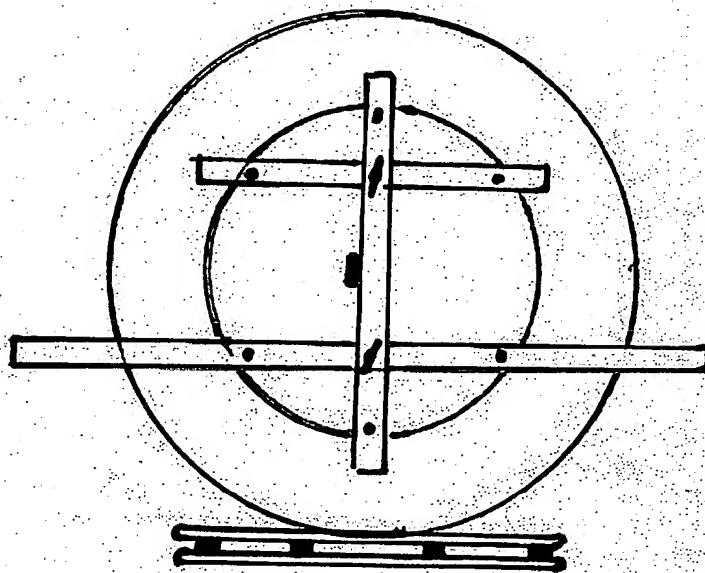
Drawing # 106  
TRAMMEL BARS USED FOR THE ALIGNMENT



Drawing # 107 CHECKING ANGLE OF FRAME RAIL

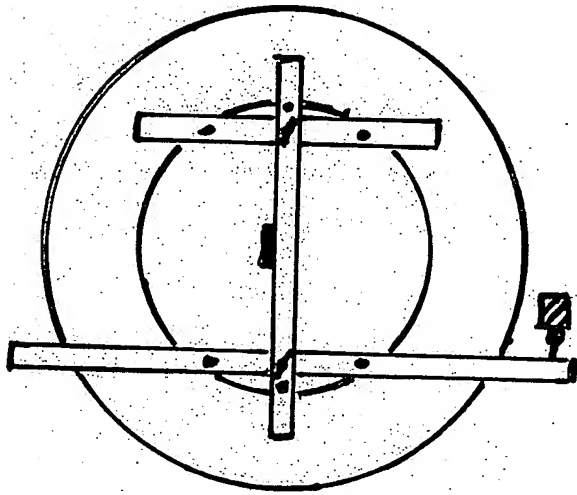


Drawing # 108 CHECKING ANGLE ON AXLE SPRING PAD



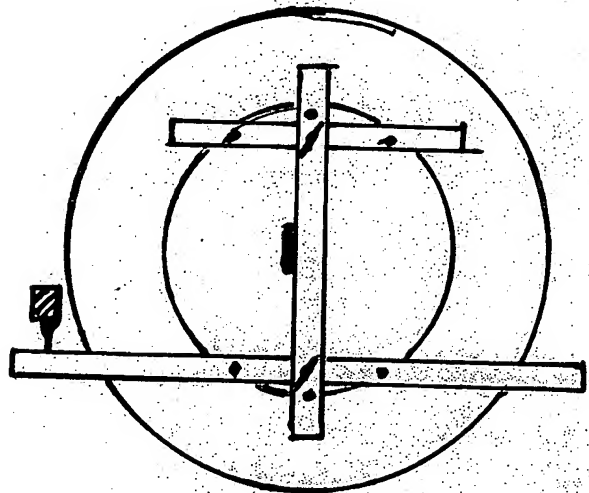
Drawing # 109 STEERING AXLE ON ROLLER PLATES WITH ALIGNMENT UNIT



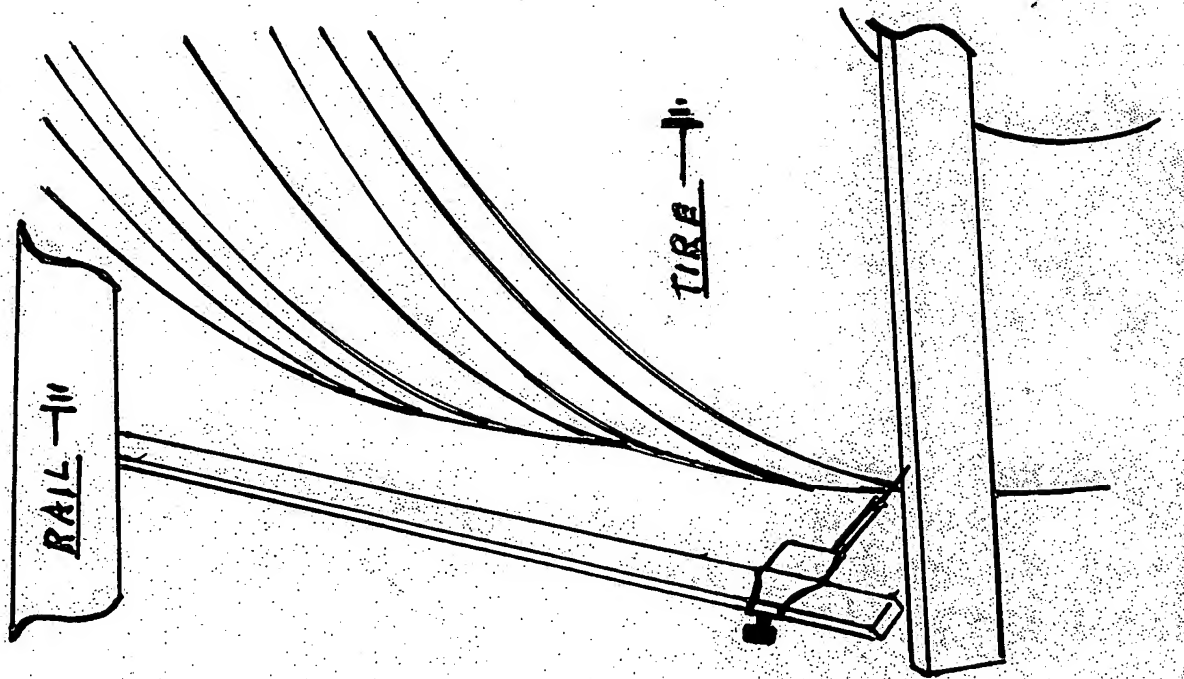


Drawing # 110 TOE-IN VIEW  
IN FRONT OF WHEELS

STEERING AXLE

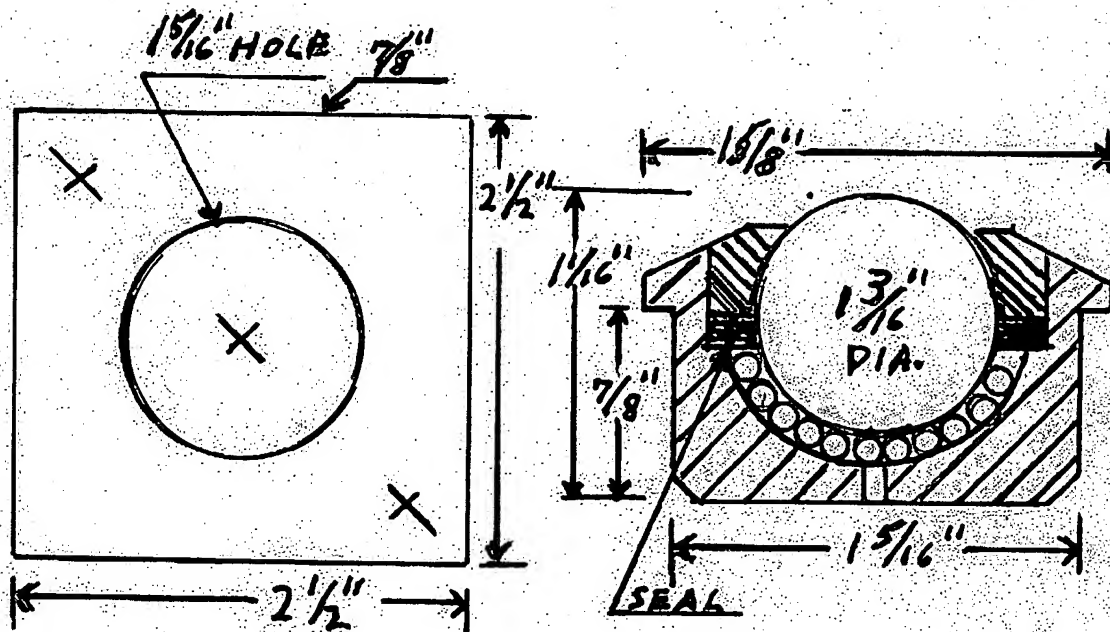


Drawing # 111 TOE-IN VIEW  
IN BACK OF WHEELS

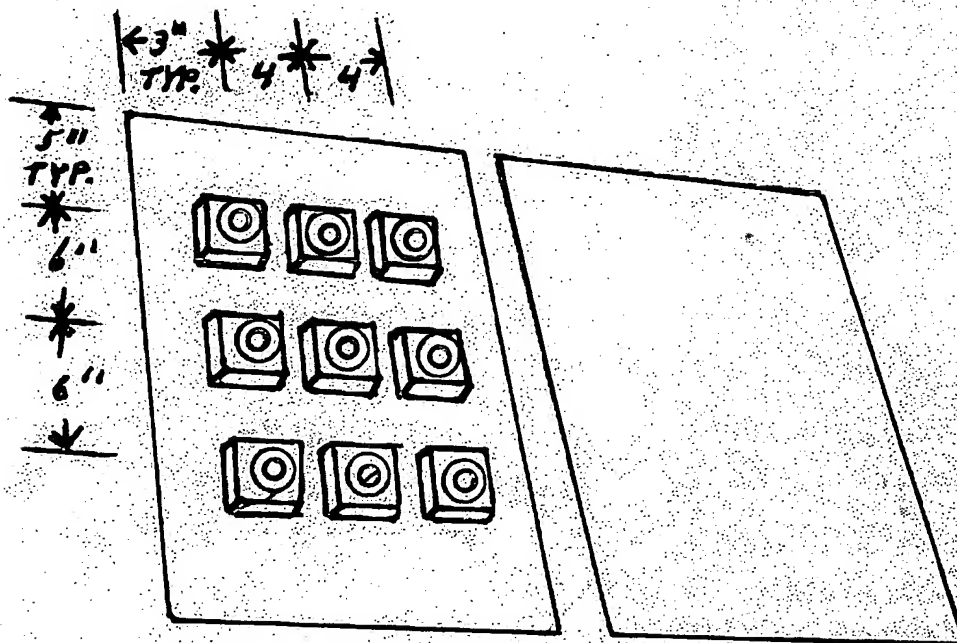


Drawing # 112 REAR DRIVE UNIT TO OUTSIDE OF RAIL MEASUREMENT

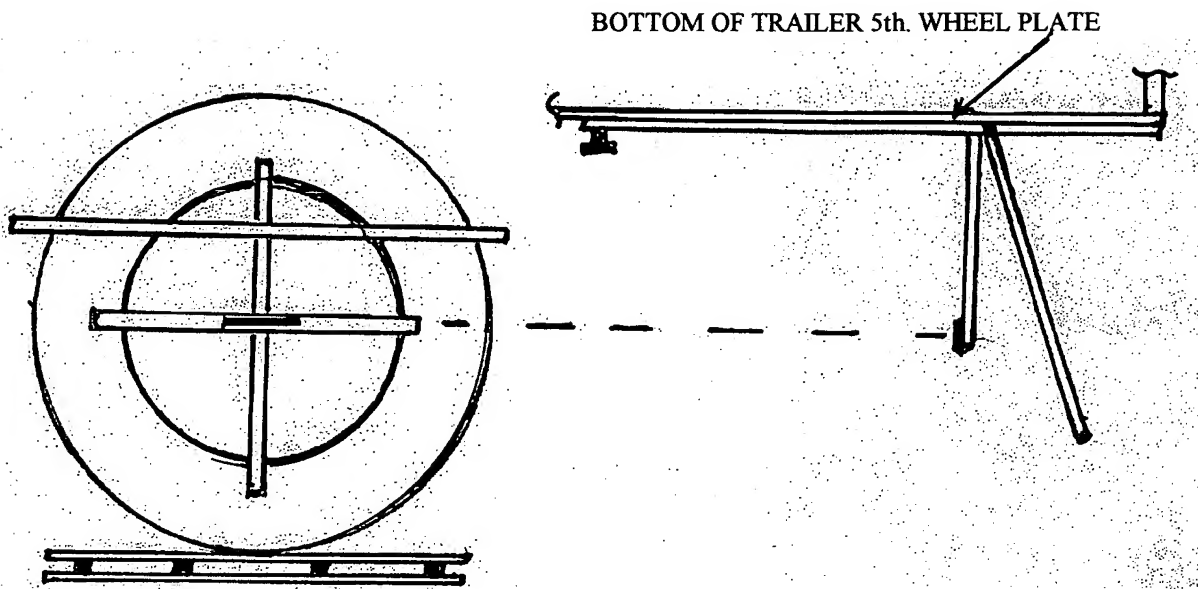
Roller plates two units top and bottom plates part # 863



Drawing # 115  
BALL TRANSFER UNIT



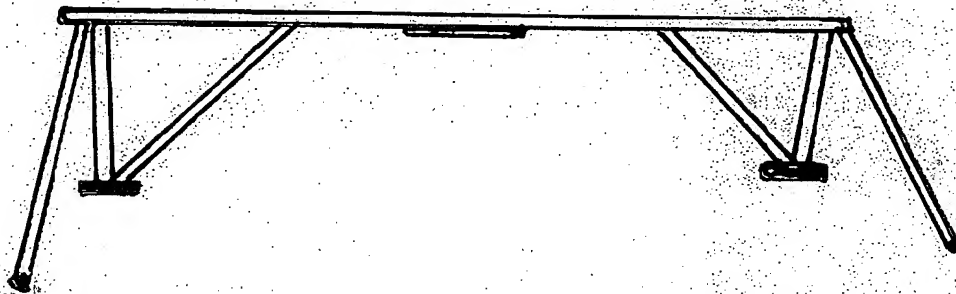
Drawing # 114 ROLLER PLATE ASSEMBLY PART # 863



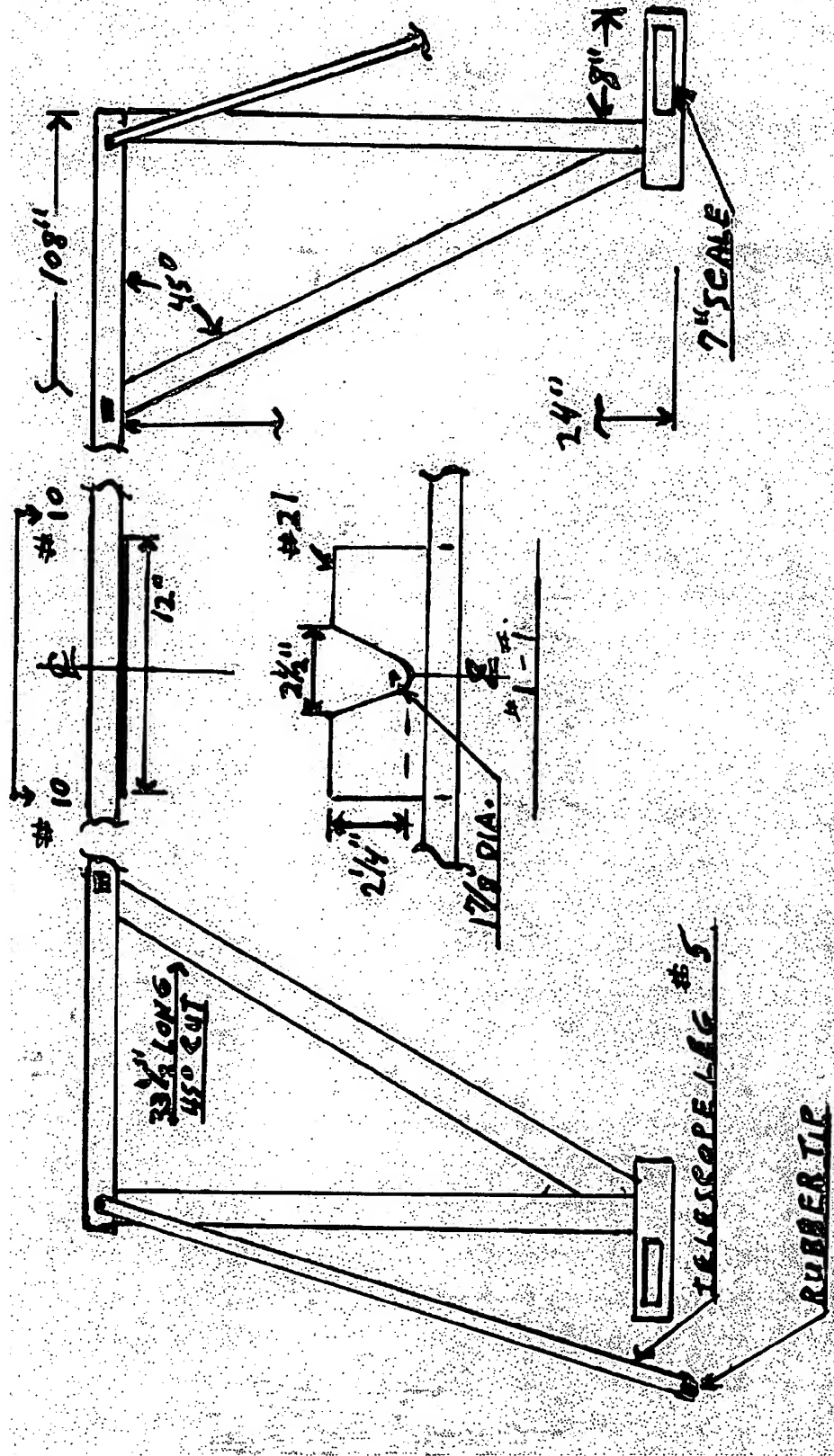
Drawing # 116

REAR TRAILER AXLE WITH  
ALIGNMENT UNIT ON ROLLER PLATES

KING PIN ALIGNMENT UNIT IN PLACE



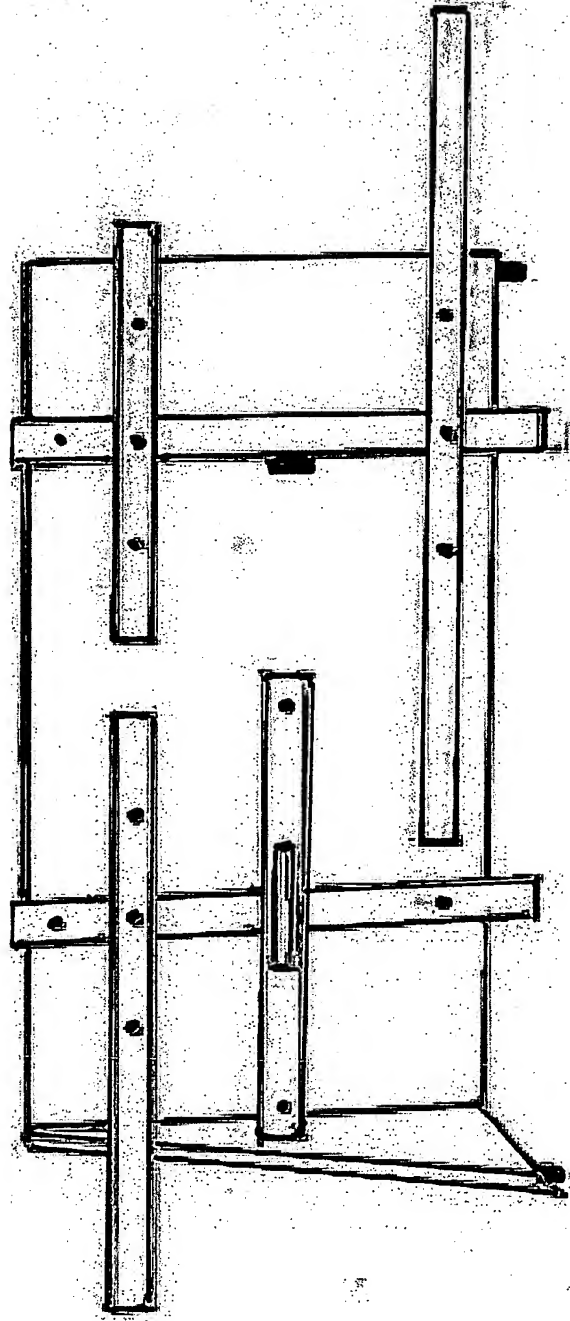
Drawing # 117 Part # 860  
KING PIN TRAILER ALIGNMENT UNIT  
Details see drawing # 118 and # 119





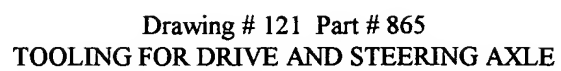
Sheet # 12 of # 14

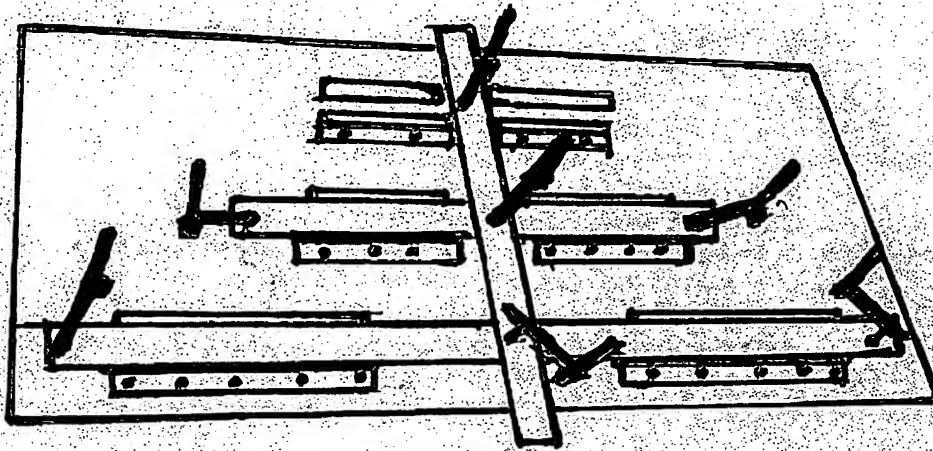
Henry Rohrig    Truck Alignment System    Tooling Jig to calibrate alignment unit part # 865



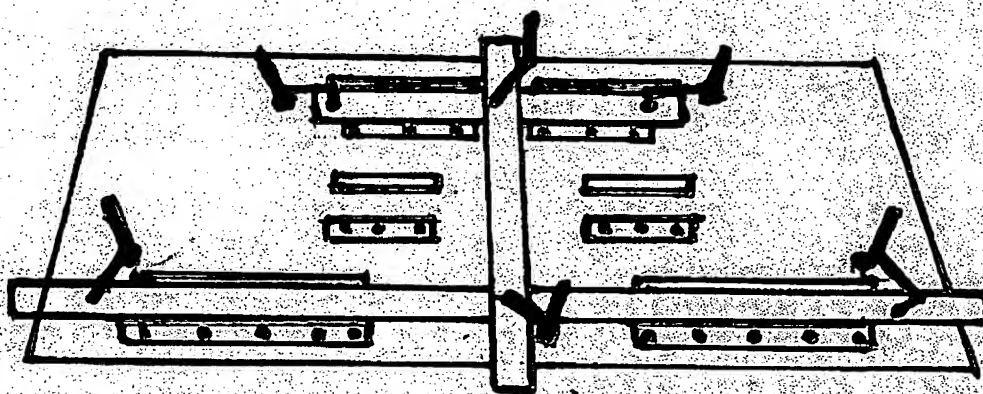
TOOLING JIG TO CALIBRATE ALIGNMENT UNITS  
UNITS INSTALLED    Details see drawing # 121

Drawing # 120





Drawing # 122 DRIVE AXLE UNIT "set up"  
Jig for Manufacturing Units Part # 866



Drawing # 123 STEERING AXLE UNIT "set up"  
Jig for Manufacturing Units Part # 866  
Same jig using different location for parts